

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000184

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04B 3/54, H04B 3/56, H04B 1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04B, H04M, H03F, H03G, H03K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4451801 A (MONTICELLI, D M), 29 May 1984 (29.05.1984), see whole document --	1-3
A	EP 0267887 A1 (TELEFONAKTIEBOLAGET L M ERICSSON), 26 October 1987 (26.10.1987), claims 1-7, abstract --	1-3
A	US 6239617 B1 (GUERTIN, D L ET AL), 29 May 2001 (29.05.2001), see whole document --	1-3
A	US 6020787 A (KIM, J D ET AL), 1 February 2000 (01.02.2000), see whole document --	1-3

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

19 August 2004

Date of mailing of the international search report

20 -08- 2004

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1089453 A1 (CANTONE, G ET AL), 4 April 2001 (04.04.2001), claims 1-3, abstract --	1-3
A	DE 19940544 A1 (ABB PATENT GMBH), 1 March 2001 (01.03.2001), claims 1-5, abstract -- -----	1-3

INTERNATIONAL SEARCH REPORT

Information on patent family members

03/07/2004

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